SANYO

Service Manual — Stereo Sound System — DCX39 (GENERAL)

Specifications

Tuner section
Frequency range . . FM: 87.5—108 MHz
MW: 525—1605 kHz

Cassette deck section
Recording system . AC bias, 4-track stereo
Rewind and fast forward time. . . . Approx. 115 sec. (C-60)
Wow and flutter . . 0.2% (WRMS)

General
Output power. . . . 90W (Total P.M.P.O)
Inputs. . . . . CD: 47 k ohms (250 mV)
Outputs. . . . . SPEAKERS: 8 ohms
HEADPHONE: 8 ohms
Power requirements. . . . AC: 110—127/ 200—220/ 230—250V, 50/60Hz
Dimensions (W x D x H) . . . . Approx. 360 x 370 x 307 mm

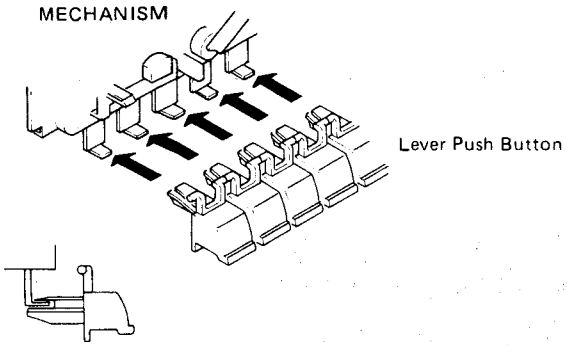
Specifications subject to change without notice.

PRODUCT CODE No.
129 317 03

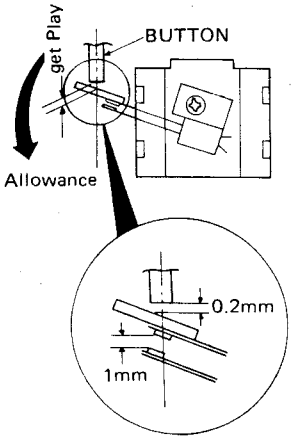
REFERENCE No. WM-580316

HOW TO ASSEMBLE THE SET

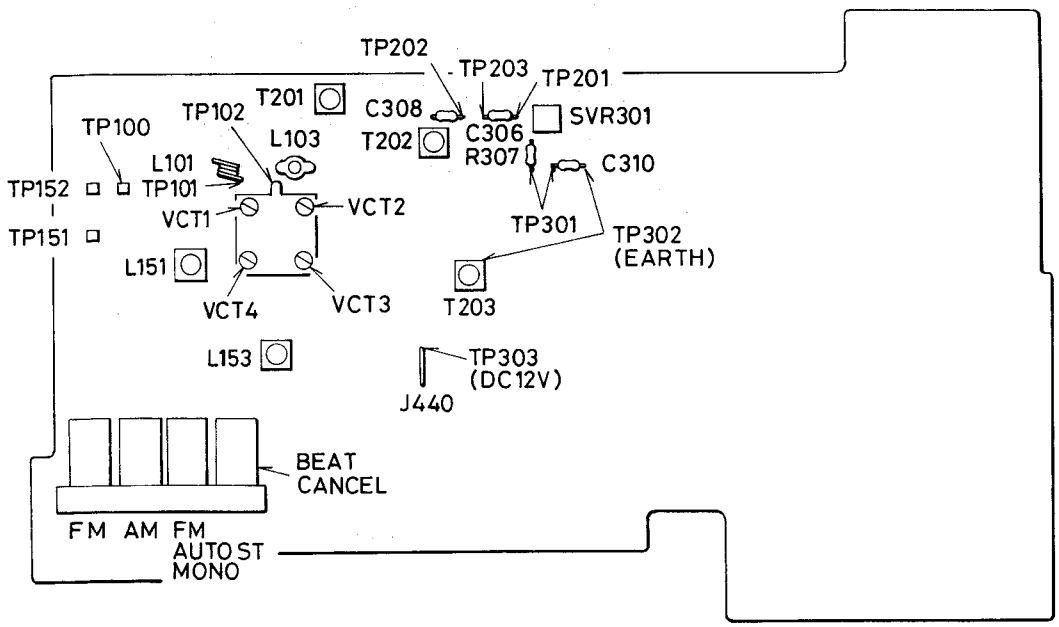
- Mechanism



CHECK NOTICE: Please install a Leaf SW as this foll
Because to have space untill swi
action when push the button.



PARTS LOCATION (TUNER)



TUNER ADJUSTMENT

PREPARE : 1. For adjustment, change over setting of switches and controls to the following position.
FUNCTION : TUNER FM MODE/BEAT : ST1 BALANCE & GRAPHIC EQUALIZER : Mechanical Center
2. Set the dial pointer to very left line of dial scale.
3. Use a screwdriver with plastic for all adjustments.

GENERAL ADJUSTMENT CONDITIONS
Standard output level : 50 mW (0.63V/ 8 ohm)
Standard modulation : FM Main 1 kHz +–22.5 kHz Dev. AM 400 Hz 30% modulation
Pilot +–7.5 kHz Dev.
Power source : AC 220V 50/60 Hz

TUNER ADJUSTMENT

MW ADJUSTMENT Selector switch to "MW"

Step	Adjusting Circuit	Connections		SG Frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	I.F.	Connect sweep generator to TP151 (H) & TP152(E)	Connect sweep generator to TP202 (H) & TP203(E)	455 KHz	Low end of dial scale. At position of unrequired signal	T203	MAX.
2	OSC	Connect AM SG to Test Loop	Connect VTVM to speaker terminals	515 KHz (400 Hz 30% modulation)	Low end of dial scale	L153	MAX.
3				1650 KHz (400 Hz 30% modulation)	High end of dial scale	VCT-4	
4	ANT	Connect AM SG to Test Loop	Connect VTVM to speaker terminals	600 KHz (400 Hz 30% modulation)	600 KHz on dial scale	L151	MAX.
5				1400 KHz (400 Hz 30% modulation)	1400 KHz on dial scale	VCT-3	
6	Repeat adjustments 2, 3, 4 and 5						

FM ADJUSTMENT Selector switch to "FM". Antenna : 75 ohm direct

Step	Adjusting Circuit	Connection		SG Frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	I.F	Connect sweep generator to TP101 (H) & TP102(E)	Connect sweep generator to TP201 (H) & TP203(E)	10.7 MHz (0% modulation)	Near max. capacitance tuning gang under no station signal	T201	
2			Connect sweep generator to TP201 (H) &TP203(E)			T202	
3	OSC	Connect FM SG to FM EXT. ANT.	Connect VTVM to speaker terminals	87.0 MHz (400 Hz 30% modulation)	Low end of dial scale	L103	MAX.
4				108.5 MHz (400 Hz 30% modulation)	High end of dial scale	VCT-2	
5	ANT	Connect FM SG to FM EXT. ANT.	Connect VTVM to speaker terminals	90 MHz (400 Hz 30% modulation)	90 MHz on dial scale	L101	MAX.
6				106 MHz (400 Hz 30% modulation)	106 MHz on dial scale	VCT-1	
7	Repeat adjustments 3, 4, 5 and 6						

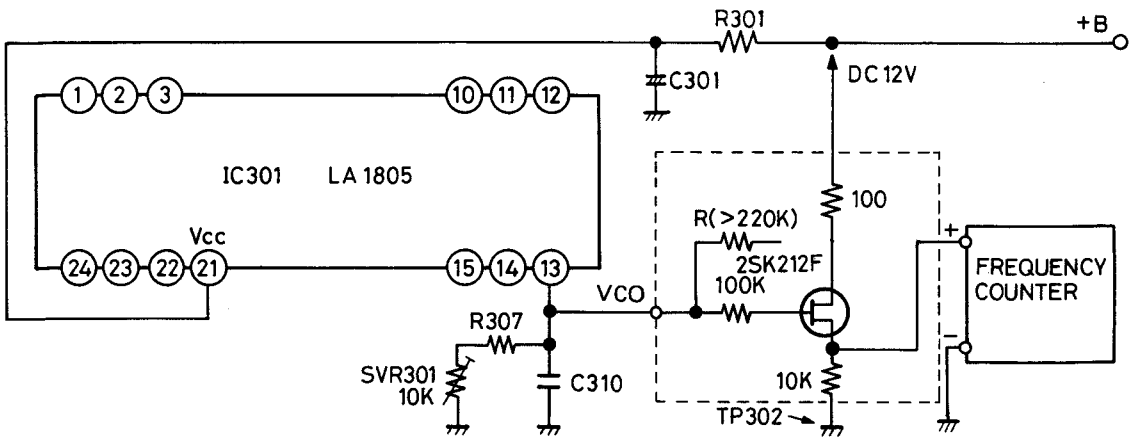
- Cautions for adjustment of FM intermediate

For V curve adjustment, deviate the T202 in pulling out direction, and adjust with T201.

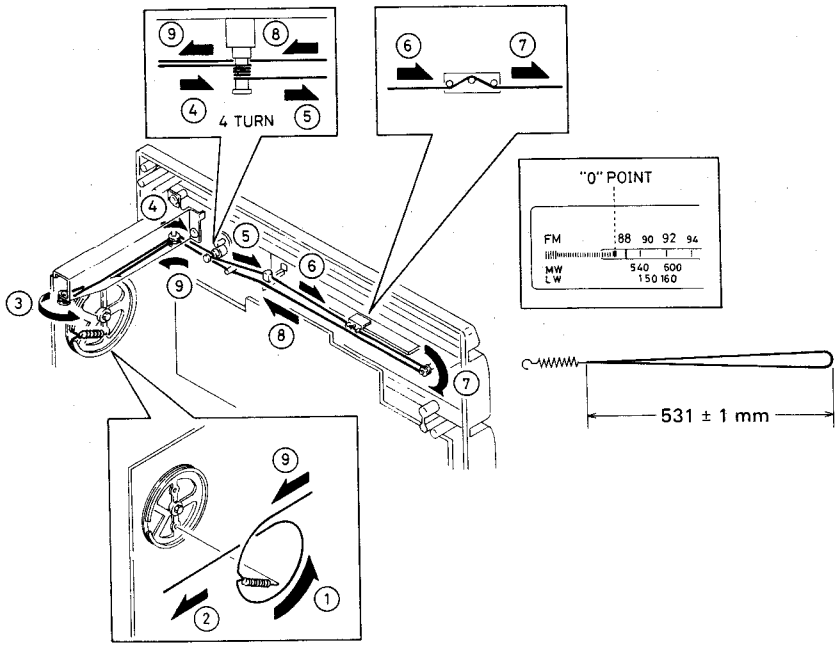
FM-MPX ADJUSTMENT

This adjustment should be after adjustment of FM Tuner.

Step	Adjustment Circuit	Connections		SG frequency & Gain	Position of tuning dial	Adjustment	Terget value	Method of adjustment
		Input	Output					
1	VCO (76 KHz)	Connect FM SG to EXT. ANT. terminals.	Connect frequency counter to TP301 (H) and TP302 (E)	98 MHz (60 dB)	98 MHz	SVR301	76 kHz ± 200 Hz	(1) In FM stereo mode and tune in. (2) *Adjust with no modulation.



DIAL ROPE STRINGING



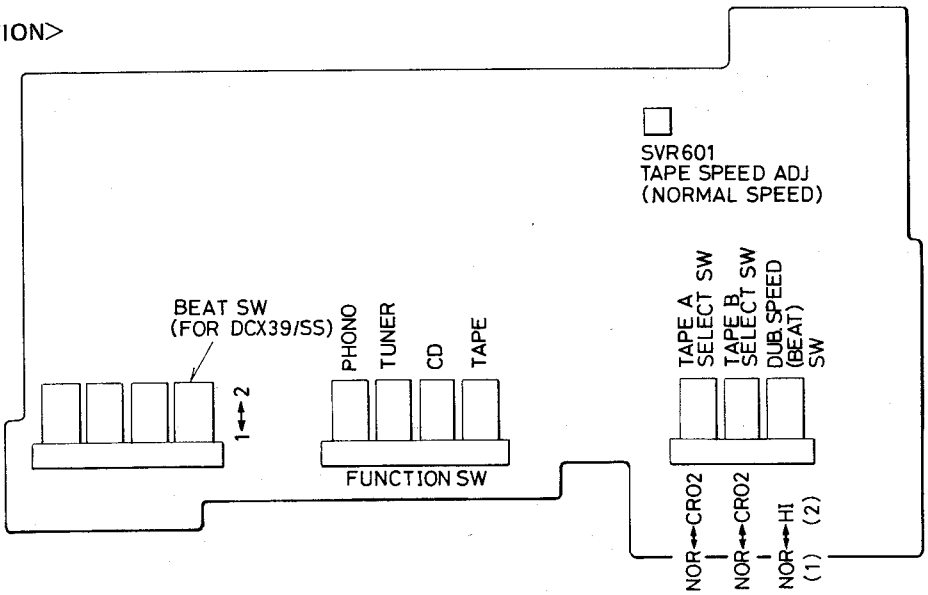
ADJUSTMENT OF DECK

Tape Speed Adjustments

Step	Speed	Deck	Test Tape	SVR	Tape Counter	Remarks
1	High	TAPE A	MTT-111	SVR601	2995~3005	Memorize the tape speed on counter. Comfirm that the
2	High	TAPE B	3000Hz		–40~70Hz	speed of TAPE B is in –40~70Hz against TAPE A.

Notes:
1. For making adjustment of step 1, Set the TAPE B mechanism is record made with C-60 blank cassette tape.
2. Adjustment should be made at the ending portion of the tape.
3. Comfirm the indication of the tape speed for 2 second after adjustment has been made and adjusting driver has been removed from SVR.
4. For adjustment, use the screw driver with isolated tip from grip.

<PARTS LOCATION>

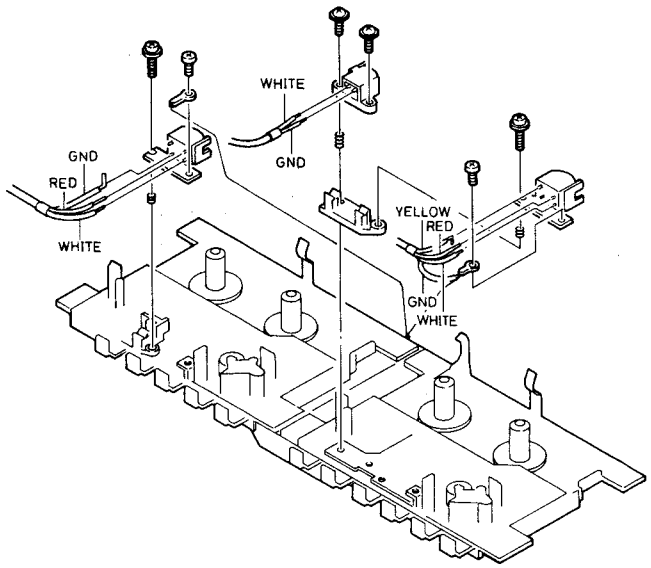


MEASUREMENT OF TORQUE & REPLACEMENT OF HEAD

Torque Measurements

Note: Prior to measurement, clean the head, capstan and pinch roller.

Item	Take-up torque	Back tension	Pulley tension
Test Cassette	PLAY: TW-2111 F.F/REW: TW-2231	PLAY/F.F: TW-2111 REW: Torque Gauge	Driving power cassette: TW-2412
PLAY	30 ~ 60 gr·cm	2 ~ 4.5 gr·cm	> 60 gr
F.FWD REW	55 ~ 120 gr·cm	—	



PARTS LIST

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual.
Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

CAUTION : Regular type resistors and capacitors are not listed. To know those values, refer to the schematic diagram.

PACKING & ACCESSORIES

Ref. No.	Part No.	Description
	614 213 9585	INNER CARTON
	614 208 7855	PAD, BOTTOM
	614 207 8198	PAD, TOP
	614 176 3569	INNER POLYE COVER, SET
	614 213 9660	INSTRUCTION MANUAL
	614 180 4644	PROTECTOR SHEET, SET
	614 016 4541	PLUG ASSY

CABINET & CHASSIS

Ref. No.	Part No.	Description
1	614 214 0611	ASSY, PANEL, FRONT
2	614 210 6556	ASSY, LID, CASSETTE, TAPE A
3	614 210 6563	ASSY, LID, CASSETTE, TAPE B
4	614 069 0385	GEAR ASSY, LID OPEN
5	614 151 7254	SPRING COIL, LID OPEN
6	614 198 3738	TUNING SHAFT ASSY
7	614 207 2325	KNOB, ROTARY, TUNING
8	614 207 2332	KNOB, ROTARY, VOLUME
9	614 207 2349	KNOB, SLIDE, EQUALIZER
10	614 207 2899	CABINET
11	614 129 4865	FIXER
15	614 207 2516	SPRING, PLATE, REC.
16	614 207 2370	BUTTON, MECHANISM
17	614 120 9050	BRACKET SWITCH
18	614 051 9785	LUG, MECHA
19	614 207 2356	BUTTON, POWER & FUNCTION
20	614 207 7986	COUNTER
21	614 207 2509	BELT, SQUARE, COUNTER
22	614 211 9136	POINTER
23	614 132 3985	DRUM
24	614 069 1788	PULLEY ASSY
25	614 135 5856	PULLEY
26	412 003 0503	SPECIAL SCREW, PULLEY
27	614 146 8778	SPRING COIL, DRUM
28	614 194 9239	BRACKET
31	614 207 2394	BRACKET-E, DECK PANEL
32	614 215 5370	CABINET, BOTTOM
33	614 207 2387	FOOT
34	614 106 4215	STAND
35	614 213 6355	PANEL, REAR
36	614 129 1710	FIXER, AC
37	614 207 2455	SUPPORT, REAR PANEL RIGHT
38	614 123 6155	PLATE NUT
39	614 108 0307	BRACKET, ANT.
40	614 113 9678	BRACKET, ANT.
41	614 211 5350	PIPE
42	614 118 5590	ROPE 0.3DX1100MM
43	614 208 7657	SUPPORT, REAR PANEL LEFT
44	614 207 3032	BRACKET-E, OUTPUT PCB
45	614 207 2417	BRACKET-E

PARTS LIST

FIXING PARTS

Ref. No.	Part No.	Description
Y1	411 021 6603	SCR S-TPG BIN 3X8
Y2	411 021 6405	SCR S-TPG BIN 3X8
Y3	411 020 9902	SCR S-TPG BRZ + FLG 3X8
Y4	411 021 1806	SCR S-TPG BIN 2.6X10
Y5	411 020 8905	SCR S-TPG BRZ + FLG 3X10
Y6	411 021 3503	SCR S-TPG BIN 3X10
Y7	411 021 3107	SCR S-TPG BIN 2.6X8
Y8	411 002 8503	SCR PAN 3X6
Y9	411 001 4209	SCR S-TPG BIN 4X8
Y10	411 098 7107	BOLT HEX C-SCT 2.6X12
Y11	411 085 1507	WASHER OUT TW 2.6
Y12	411 099 2606	SCR S-TPG BIN 2.6X12
Y13	411 049 0003	SCR PAN + FLG 3X8
Y14	411 092 3303	WASHER Z 3X12X1

ELECTRICAL PARTS

Ref. No.	Part No.	Description
71	614 214 3858	PCB, HEADPHONE STOPPER
72	⚠ 614 214 3933	POWER TRANS
73	⚠ 614 023 3469	POWER CORD
or	⚠ 614 023 3544	POWER CORD
or	⚠ 614 023 4435	POWER CORD
74	614 018 9315	SWITCH
75	614 208 4014	HEAT SINK
76	614 208 4311	SOCKET
77	614 208 4328	SOCKET
78	614 208 4335	SOCKET
79	614 208 4342	SOCKET
80	614 208 4359	SOCKET
81	⚠ 614 214 3827	PCB, PT1
82	423 004 5404	FUSE 250V 0.315A (F901)
83	423 003 8307	FUSE 250V 0.63A (F902)
84	⚠ 614 214 3865	PCB, VOLTAGE SELECT
85	614 018 2071	SWITCH, VOLTAGE SELECT (S14)
86	614 036 9007	LOOP ANT ASSY
87	614 202 1903	TERMINAL BOARD

AMP & TUNER P.C.BOARD ASSY

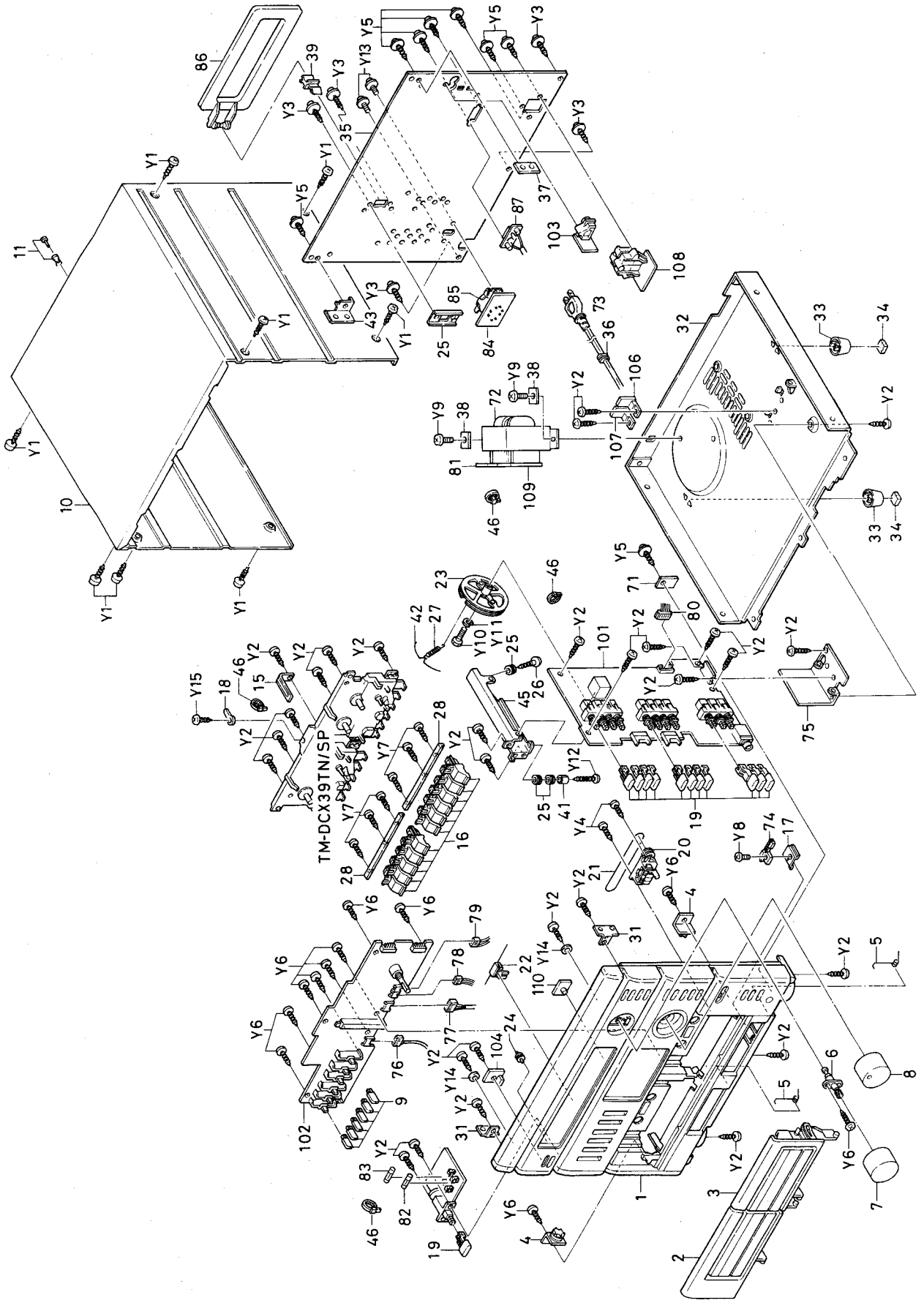
Ref. No.	Part No.	Description
101	614 214 3667	ASSY, PCB, AMP & TUNER
	614 208 2454	SWITCH, PUSH, FUNCTION
	614 208 2461	SWITCH, PUSH, TAPE SELECT
	614 214 3490	SWITCH, PUSH
	614 007 8282	V.C
	614 035 1712	SOCKET, HEADPHONE
	614 214 3926	SOCKET, 5P, PLAYER
	614 211 2991	SOCKET, CD
T201	614 030 3476	I.F.T, FM
T202	614 030 3254	I.F.T, FM
T203	614 030 4480	I.F.T, AM
L101	614 034 6749	VHF COIL
L103	614 035 0012	VHF COIL
L151	614 032 5928	ANT COIL, AM
L153	614 033 9437	O.S.C COIL, AM
CF201	614 030 5074	I.F FILTER, RED
CF201	614 030 5081	I.F. FILTER, BLUE
or	614 030 5098	I.F FILTER, ORANGE
or	614 030 5104	I.F FILTER, BROWN
or	614 030 5111	I.F FILTER, WHITE
CF202	614 030 5074	I.F FILTER, RED
or	614 030 5081	I.F. FILTER, BLUE
or	614 030 5098	I.F FILTER, ORANGE
or	614 030 5104	I.F FILTER, BROWN
or	614 030 5111	I.F FILTER, WHITE
CF203	614 030 7580	I.F FILTER, 455KHZ
BPF101	614 032 5775	ANT COIL
SVR301	614 204 1901	SEMI V.R, 10K
SVR601	614 204 1871	SEMI V.R, 2K

Ref. No.	Part No.	Description
CN301	614 035 4911	SOCKET, 2P
CN604	614 017 2133	PLUG, 6P, MECHA
CN612	614 208 2355	SOCKET, PCB-PCB
CN613	614 208 2355	SOCKET, PCB-PCB
CN702	614 020 1222	SOCKET, 3P, CD IN
CN703	614 020 1246	SOCKET, 5P, PLAYER
CN704	614 020 6555	SOCKET, 3P, SP OUT
CN900	614 020 6562	SOCKET, 4P, POWER SUPPLY
CN901	614 020 6586	SOCKET, 6P, REGULATOR
TP100	614 017 6964	TERMINAL BOARD
TP151	614 017 6964	TERMINAL BOARD
TP152	614 017 6964	TERMINAL BOARD
IC101	409 049 2103	IC TA7358P
IC301	409 163 3802	IC LA1805-SS
IC760	409 017 7505	IC LA4270
Q201	405 018 7902	TR 2SC380TM-O
Q614	405 004 4601	TR 2SA608-F-SPA
or	405 005 2002	TR 2SA733-P
Q615	405 012 2002	TR 2SC1815-GR
or	405 017 9709	TR 2SC3330-U
or	405 019 3705	TR 2SC536-G-AUD-SPA
or	405 020 7204	TR 2SC945A-K
Q770	405 012 2002	TR 2SC1815-GR
or	405 017 9709	TR 2SC3330-U
or	405 019 3705	TR 2SC536-G-AUD-SPA
or	405 020 7204	TR 2SC945A-K
Q870	405 012 2002	TR 2SC1815-GR
or	405 017 9709	TR 2SC3330-U
or	405 019 3705	TR 2SC536-G-AUD-SPA
or	405 020 7204	TR 2SC945A-K
D901	407 004 9105	DIODE DSF10C
or	407 012 3300	DIODE 1SR35-200A
D902	407 004 9105	DIODE DSF10C
or	407 012 3300	DIODE 1SR35-200A
D903	407 004 9105	DIODE DSF10C
or	407 012 3300	DIODE 1SR35-200A
D904	407 004 9105	DIODE DSF10C
or	407 012 3300	DIODE 1SR35-200A
D905	407 004 9105	DIODE DSF10C
or	407 012 3300	DIODE 1SR35-200A
D906	407 004 9105	DIODE DSF10C
or	407 012 3300	DIODE 1SR35-200A
D907	407 004 9105	DIODE DSF10C
or	407 012 3300	DIODE 1SR35-200A
D908	407 004 9105	DIODE DSF10C
or	407 012 3300	DIODE 1SR35-200A
C310	403 080 8902	POLYPRO 1500P J 100V
C763	403 057 3800	POLYESTER 0.1U M 50V
C764	403 057 3800	POLYESTER 0.1U M 50V
C863	403 057 3800	POLYESTER 0.1U M 50V
C864	403 057 3800	POLYESTER 0.1U M 50V

DECK & GRAPHIC EQUALIZER P.C.BOARD ASSY

Ref. No.	Part No.	Description
102	614 214 3674	ASSY, PCB, DECK & GRAPHIC EQ.
	614 208 2423	VR, ROTARY, MAIN VOLUME
	614 003 4363	V.R, GRAPHIC EQUALIZER
	614 003 5766	V.R, 50KA, BALANCE
L601	614 212 1023	TRANS, OSC
S8	614 208 2430	SWITCH, SLIDE, R/P
CN600	614 017 2249	PLUG, 2P, E HEAD
CN601	614 017 2249	PLUG, 2P, STOP SW
CN602	614 208 2263	PLUG, PCB-PCB
CN603	614 208 2263	PLUG, PCB-PCB
CN700	614 017 2256	PLUG, 3P, P HEAD
CN701	614 017 2263	PLUG, 4P, R/P HEAD
CN902	614 020 6548	SOCKET, 2P, LED
IC701	409 035 6504	IC M51166P
Q601	405 004 5004	TR 2SA608-G-NP
or	405 005 2002	TR 2SA733-P

EXPLODED VIEW (CABINET & CHASSIS)



PARTS LIST

Ref. No.	Part No.	Description
Q602	405 012 2002	TR 2SC1815-GR
or	405 018 0200	TR 2SC3331-U
or	405 019 4108	TR 2SC536-G-AUD-NP
Q603	405 020 9703	TR 2SD1011-S
Q610	405 012 2002	TR 2SC1815-GR
or	405 017 9709	TR 2SC3330-U
or	405 019 3705	TR 2SC536-G-AUD-SPA
or	405 020 7204	TR 2SC945A-K
Q611	405 012 2002	TR 2SC1815-GR
or	405 017 9709	TR 2SC3330-U
or	405 019 3705	TR 2SC536-G-AUD-SPA
or	405 020 7204	TR 2SC945A-K
Q612	405 012 2002	TR 2SC1815-GR
or	405 017 9709	TR 2SC3330-U
or	405 019 3705	TR 2SC536-G-AUD-SPA
or	405 020 7204	TR 2SC945A-K
Q613	405 012 2002	TR 2SC1815-GR
or	405 017 9709	TR 2SC3330-U
or	405 019 3705	TR 2SC536-G-AUD-SPA
or	405 020 7204	TR 2SC945A-K
Q701	405 004 4601	TR 2SA608-F-SPA
or	405 005 2002	TR 2SA733-P
Q702	405 012 2002	TR 2SC1815-GR
or	405 017 9709	TR 2SC3330-U
or	405 019 3705	TR 2SC536-G-AUD-SPA
or	405 020 7204	TR 2SC945A-K
Q711	405 004 4601	TR 2SA608-F-SPA
or	405 005 2002	TR 2SA733-P
Q712	405 012 2002	TR 2SC1815-GR
or	405 017 9709	TR 2SC3330-U
or	405 019 3705	TR 2SC536-G-AUD-SPA
or	405 020 7204	TR 2SC945A-K
Q713	405 004 4601	TR 2SA608-F-SPA
or	405 005 2002	TR 2SA733-P
Q714	405 012 2002	TR 2SC1815-GR
or	405 017 9709	TR 2SC3330-U
or	405 019 3705	TR 2SC536-G-AUD-SPA
or	405 020 7204	TR 2SC945A-K
Q730	405 012 2002	TR 2SC1815-GR
or	405 017 9709	TR 2SC3330-U
or	405 019 3705	TR 2SC536-G-AUD-SPA
or	405 020 7204	TR 2SC945A-K
Q731	405 012 2002	TR 2SC1815-GR
or	405 017 9709	TR 2SC3330-U
or	405 019 3705	TR 2SC536-G-AUD-SPA
or	405 020 7204	TR 2SC945A-K
Q801	405 004 4601	TR 2SA608-F-SPA
or	405 005 2002	TR 2SA733-P
Q802	405 012 2002	TR 2SC1815-GR
or	405 017 9709	TR 2SC3330-U
or	405 019 3705	TR 2SC536-G-AUD-SPA
or	405 020 7204	TR 2SC945A-K
Q811	405 004 4601	TR 2SA608-F-SPA
or	405 005 2002	TR 2SA733-P
Q812	405 012 2002	TR 2SC1815-GR
or	405 017 9709	TR 2SC3330-U
or	405 019 3705	TR 2SC536-G-AUD-SPA
or	405 020 7204	TR 2SC945A-K
Q813	405 004 4601	TR 2SA608-F-SPA
or	405 005 2002	TR 2SA733-P
Q814	405 012 2002	TR 2SC1815-GR
or	405 017 9709	TR 2SC3330-U
or	405 019 3705	TR 2SC536-G-AUD-SPA
or	405 020 7204	TR 2SC945A-K
Q830	405 012 2002	TR 2SC1815-GR
or	405 017 9709	TR 2SC3330-U
or	405 019 3705	TR 2SC536-G-AUD-SPA
or	405 020 7204	TR 2SC945A-K
Q831	405 012 2002	TR 2SC1815-GR
or	405 017 9709	TR 2SC3330-U
or	405 019 3705	TR 2SC536-G-AUD-SPA
or	405 020 7204	TR 2SC945A-K
C602	403 062 0306	POLYESTER 0.047U K 50V
C605	403 080 9602	POLYPRO 0.015U J 100V

CD PHONO IN P.C.BOARD ASSY

Ref. No.	Part No.	Description
103	614 214 3759	ASSY, PCB, CD PHONO IN
	614 035 2702	SOCKET, RCA
	614 019 8553	SOCKET, PLAYER SIGNAL
	614 016 8341	PLUG, 2P, PLAYER POWER
CN712	614 017 2102	PLUG, 3P, TO MAIN
CN713	614 017 2126	PLUG, 5P, TO MAIN

POWER LED P.C.BOARD ASSY

Ref. No.	Part No.	Description
104	614 214 3698	ASSY, PCB, POWER LED
CN912	614 020 6548	SOCKET, 2P, TO MAIN
D960	407 028 8702	LED SLP-173B-B

POWER SW P.C.BOARD ASSY

Ref. No.	Part No.	Description
105	614 214 3704	ASSY, PCB, POWER SWITCH
	⚠ 614 017 6964	TERMINAL BOARD
	⚠ 614 208 4540	FUSE HOLDER
S13	⚠ 614 018 8967	SWITCH, POWER
C990	⚠ 404 000 1607	CERAMIC 0.01U F 400V
or	⚠ 404 033 3401	CERAMIC 0.01U Z -

REGULATOR 1 P.C.BOARD ASSY

Ref. No.	Part No.	Description
106	614 214 3735	ASSY, PCB, REGULATOR 1
CN911	614 020 6555	SOCKET, 3P
IC960	⚠ 409 078 2402	IC L7812ML
or	⚠ 409 122 6202	IC NJM7812FA
or	⚠ 409 168 2107	IC UPC7812HF
or	⚠ 409 001 7603	IC AN7812F

REGULATOR 2 P.C.BOARD ASSY

Ref. No.	Part No.	Description
107	614 214 3742	ASSY, PCB, REGULATOR 2
CN921	614 020 6555	SOCKET, 3P
IC961	⚠ 409 078 2402	IC L7812ML
or	⚠ 409 122 6202	IC NJM7812FA
or	⚠ 409 168 2107	IC UPC7812HF
or	⚠ 409 001 7603	IC AN7812F

SP OUT P.C.BOARD ASSY

Ref. No.	Part No.	Description
108	614 214 3728	ASSY, PCB, SPEAKER TERMINAL
	614 208 4557	TERMINAL
CN714	614 020 6555	SOCKET, 3P, TO AMP

PT.2 P.C.BOARD ASSY

Ref. No.	Part No.	Description
109	614 214 3711	ASSY, PCB, PT2
CN910	614 020 6562	SOCKET, 4P, TO MAIN
C991	403 057 3800	POLYESTER 0.1U M 50V
C992	403 057 3800	POLYESTER 0.1U M 50V
R990	⚠ 402 042 2903	RESISTOR 0.47 J- 1/2W

PARTS LIST

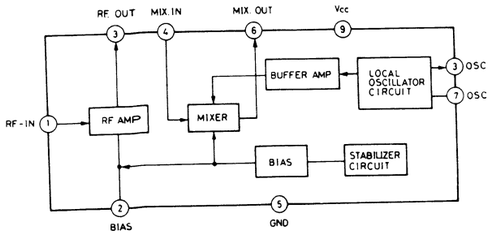
STEREO LED P.C.BOARD ASSY

Ref. No.	Part No.	Description
110	614 214 3681	ASSY, PCB, STEREO LED
	614 035 4911	SOCKET, 2P
D301	408 008 9009	LED SLR-56VC70F130-M
or	408 008 9108	LED SLR-56VC70F130-N
or	408 008 9207	LED SLR-56VC70F130-P

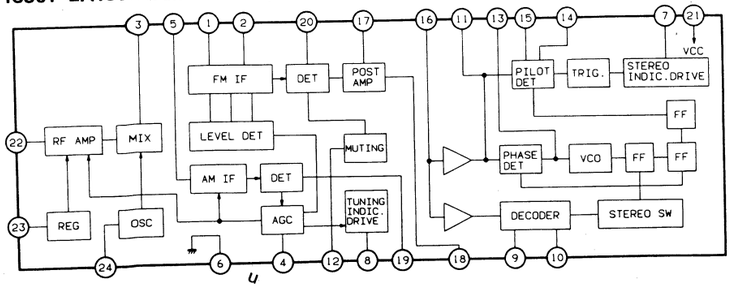
IC BLOCK DIAGRAM

* Please look at the Schematic Diagram if it does not listed the IC BLOCK DIAGRAM.

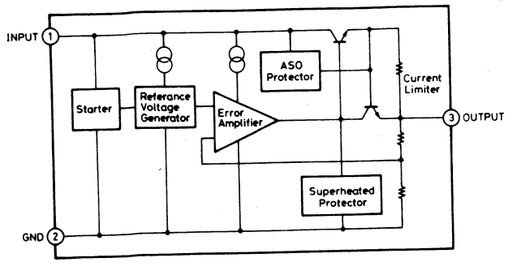
IC101 TA7358P (FM Front End)



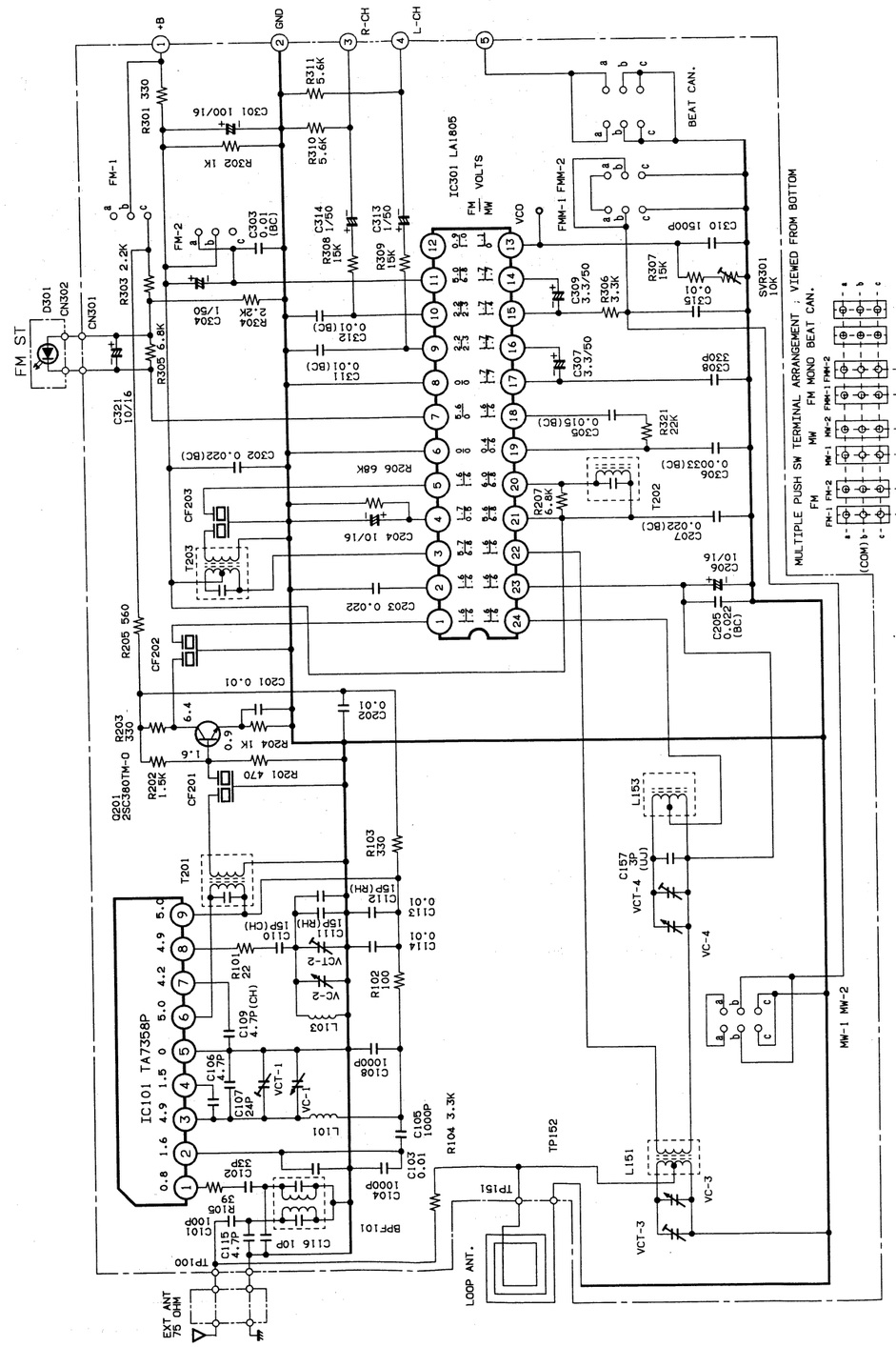
IC301 LA1805 (AM/FM 1 Chip Radio)



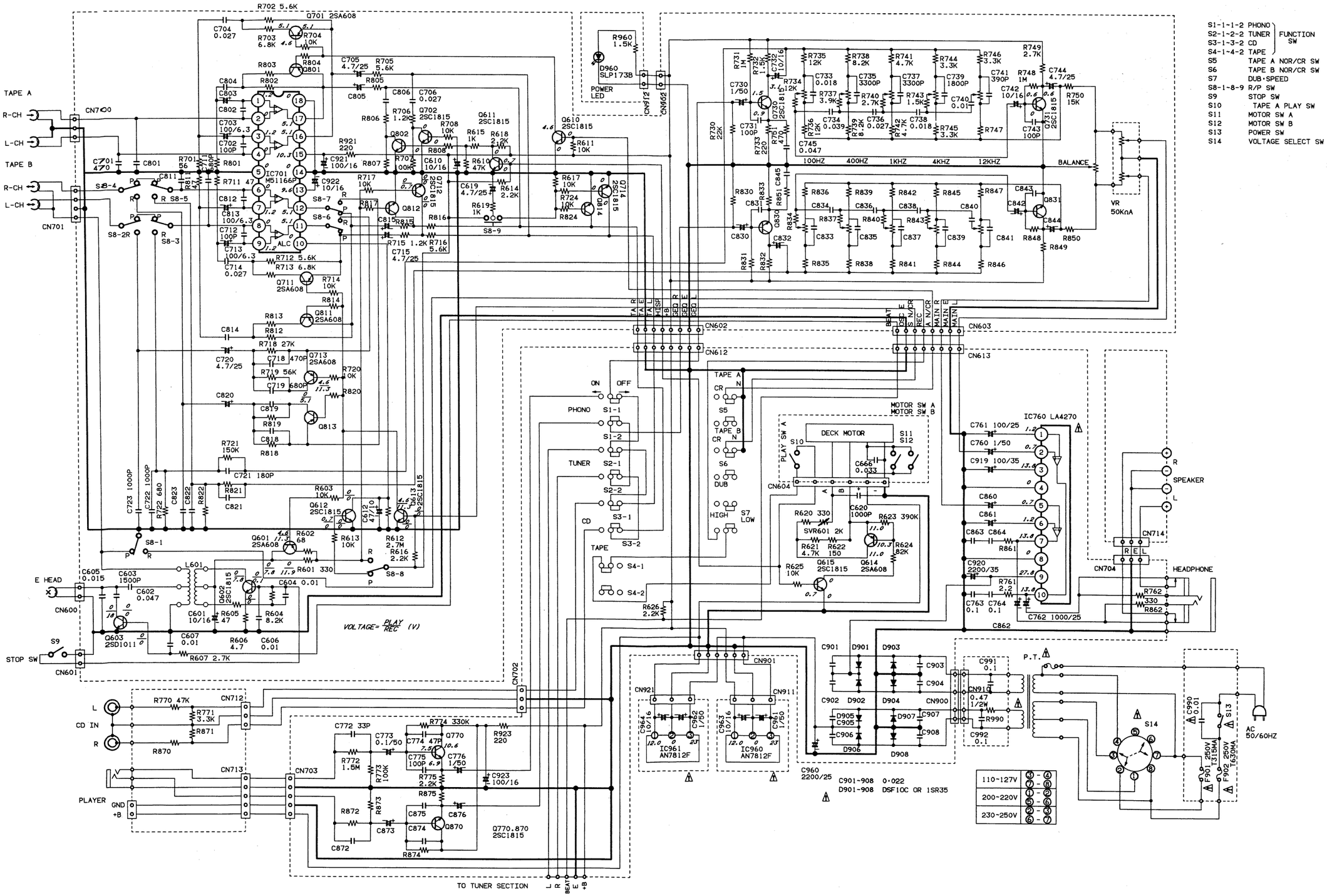
IC960, IC961 AN7812F (12V 3-Terminal Constant Voltage Regulated Power Supply)

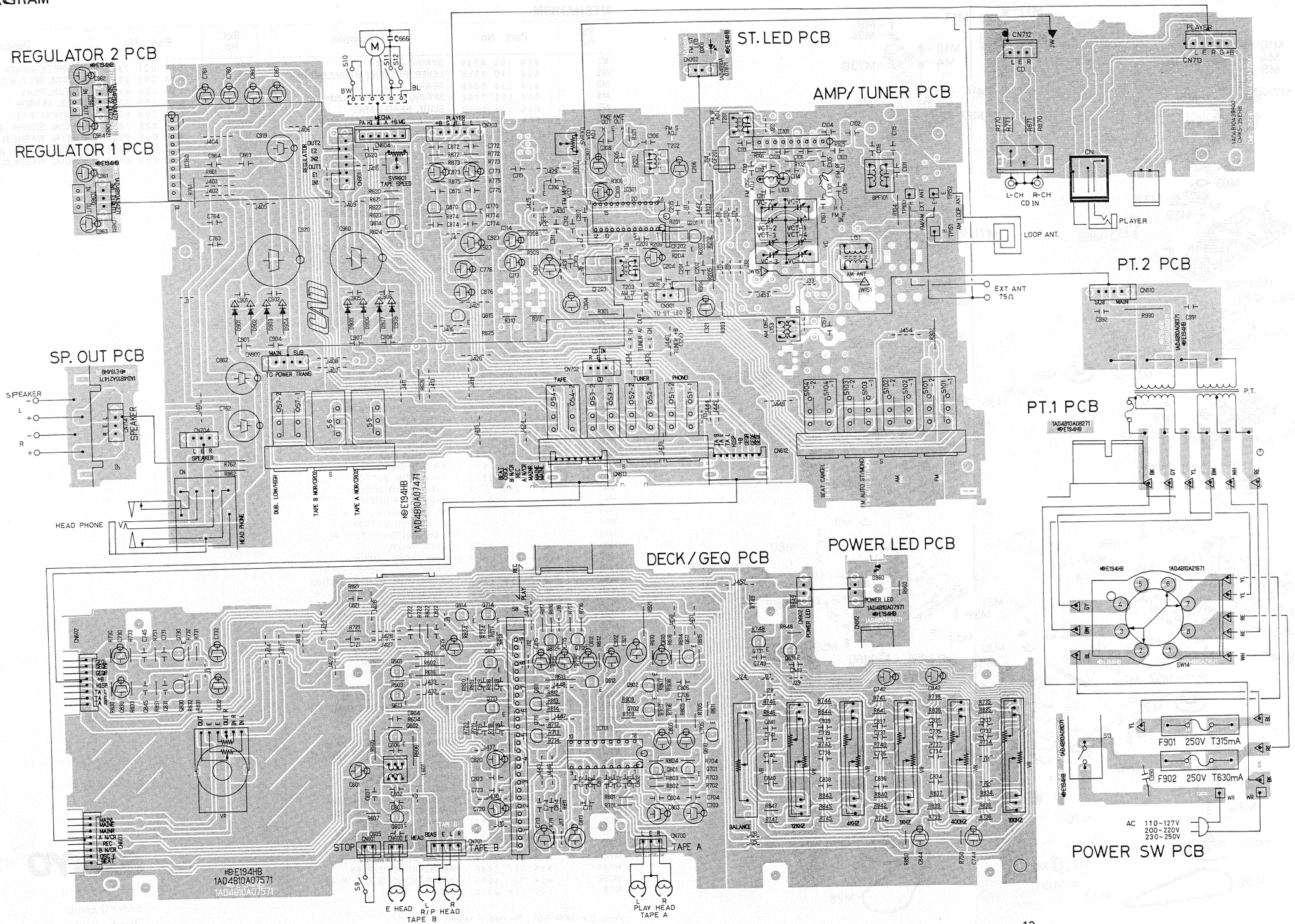


SCHEMATIC DIAGRAM (TUNER)

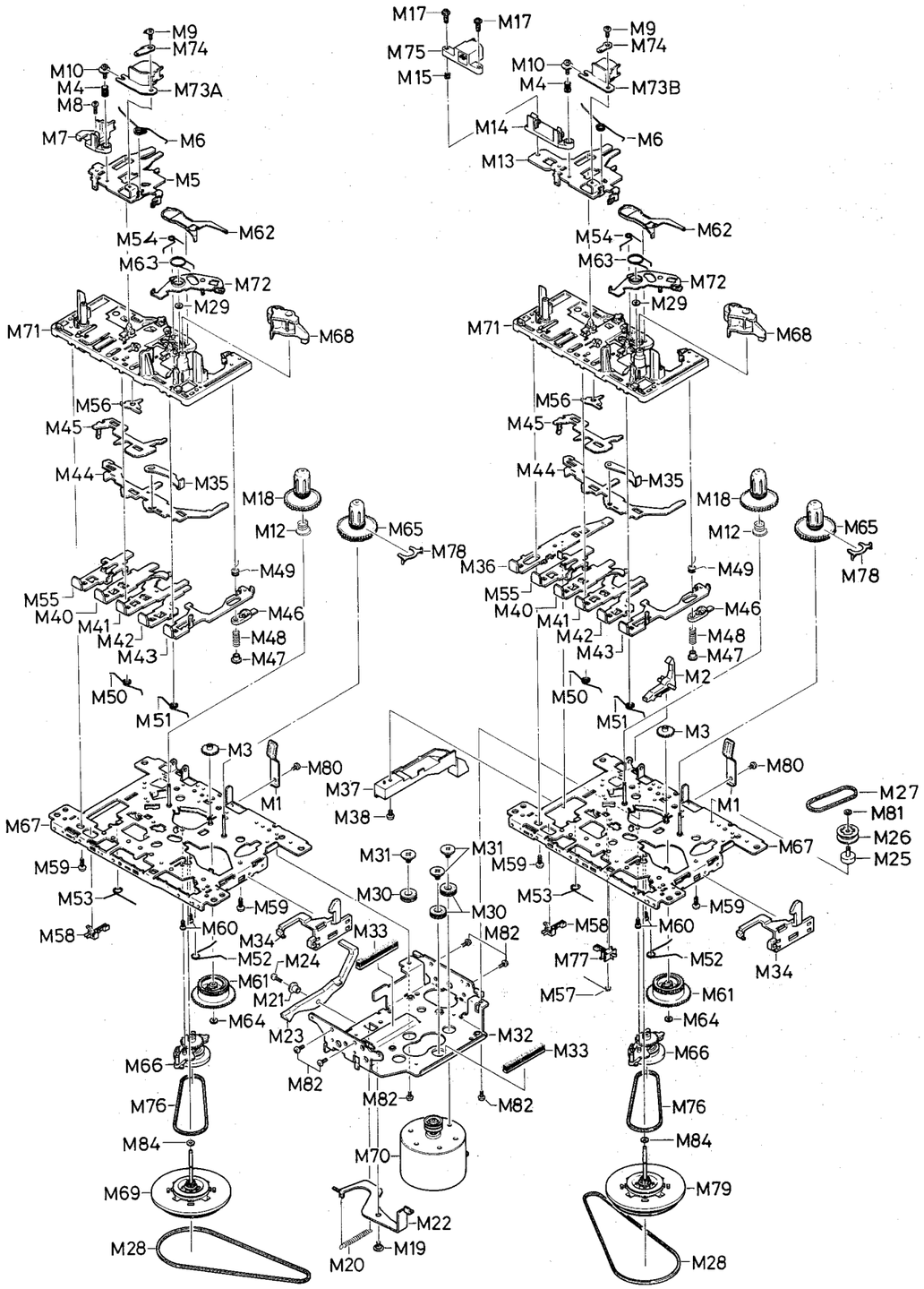


SCHEMATIC DIAGRAM (DECK & AMP)




REGULATOR 2 PCB
REGULATOR 1 PCB
ST. LED PCB
AMP/ TUNER PCB
PT. 2 PCB
SP. OUT PCB
PT.1 PCB
DECK / GEQ PCB
POWER LED PCB
POWER SW PCB
LOOP ANT.
EXT ANT 75Ω
L-CH R-CH CD IN
PLAYER
P.T.
SPEAKER
HEAD PHONE
TO POWER TRANS
TO ST LED
STOP
TAPE A
TAPE B
E HEAD
R/P HEAD TAPE B
PLAY HEAD TAPE A
AC 110~127V 200~220V 230~250V
F901 250V T315mA
F902 250V T630mA

EXPLODED VIEW (MECHANISM)



PARTS LIST

MECHANISM

Ref. No.	Part No.	Description
M1	614 151 8299	SPRING PLATE
M2	614 140 1508	LEVER, PREVENT MISRECORDING
M3	614 134 9046	GEAR, F.FWD
M4	614 151 7162	SPRING COIL, HEAD AZIMUTH
M5	614 139 1113	SLIDE, HEAD PANEL
M6	614 210 3432	SPRING WIRE, HEAD PANEL
M7	614 146 5111	BRACKET, TAPE GUIDE
M8	412 031 7901	SPECIAL SCREW 2X6MM
M9	412 031 6607	SPECIAL SCREW 2X3MM
M10	412 026 1709	SPECIAL SCREW 2X7MM
M12	614 208 0351	SPRING, COMP, BACK TENSION
M13	614 210 6822	SLIDE, HEAD PANEL
M14	614 196 0470	BRACKET HEAD, ERASE
M15	614 151 5090	SPRING COIL, ERASE HEAD
M17	412 027 4600	SPECIAL SCREW 2X8MM
M18	614 211 3868	REEL ASSY, SUPPLY
M19	412 005 8101	SPECIAL SCREW, PLAY KICK LEVER
M20	614 151 4758	SPRING COIL, PLAY KICK LEVER
M21	614 129 0683	BOSS, PLAY KICK LEVER
M22	614 139 8679	LEVER, PLAY KICK
M23	614 140 1676	LEVER, PLAY KICK
M24	411 025 2205	SCR S-TPG PAN 2X6MM
M25	614 197 7898	SHAFT, PULLEY
M26	614 197 7720	PULLEY, BELT
M27	614 197 7638	SQUARE BELT, PULLEY
M28	614 133 4127	SQUARE BELT, MAIN
M29	412 026 1808	SPECIAL WASHER 1.45X3.8X0.5T
M30	614 126 6831	CUSHION, MOTOR RUBBER
M31	412 026 1907	SPECIAL SCREW, MOTOR MTG.
M32	614 122 9553	BRACKET MOTOR
M33	614 126 6848	CUSHION, ANTI VIBRATION
M34	614 140 1522	LEVER, EJECT SLIDE
M35	614 140 1539	LEVER, EJECT KICK
M36	614 196 0500	LEVER, REC. BUTTON
M37	614 207 2431	MOUNT-M, REC.
M38	411 025 2007	SCR S-TPG PAN 2X4
M40	614 196 0517	LEVER, REW. BUTTON
M41	614 196 0524	LEVER, F.FWD BUTTON
M42	614 196 0531	LEVER, STOP BUTTON
M43	614 208 0313	LEVER, PAUSE BUTTON
M44	614 139 1120	SLIDE, PUSH BUTTON ACTUATOR
M45	614 139 1137	SLIDE, SWITCH ACTUATOR
M46	614 208 0320	LEVER, PAUSE
M47	614 129 0669	BOSS, PAUSE STOPPER
M48	614 151 7186	SPRING COIL, PAUSE LEVER
M49	614 152 1244	SPRING WIRE, PAUSE CONTROL
M50	614 152 1251	SPRING WIRE, BUTTON LEVER
M51	614 152 1268	SPRING WIRE, BUTTON LEVER
M52	614 152 1275	SPRING WIRE, EJECT ACTUATOR
M53	614 152 1282	SPRING WIRE, P.S LEVER
M54	614 152 1299	SPRING WIRE, CONTROL
M55	614 196 0555	LEVER, PLAY BUTTON
M56	614 129 0676	BOSS, R/P STOPPER
M57	614 152 1305	SPRING WIRE, REC. BUTTON
M58	614 024 3437	SWITCH, POWER
M59	412 026 2201	SPECIAL SCREW 2X5MM
M60	412 026 2300	SPECIAL SCREW 2X4.5MM
M61	614 134 9053	GEAR, CAM
M62	614 140 1614	LEVER, SENSING
M63	614 151 8312	SPRING PLATE, GEAR PLATE
M64	412 013 5000	SPECIAL WASHER 1.2X3.8X0.3T
M65	614 211 3875	REEL ASSY, TAKE UP
M66	614 069 2273	PULLEY ASSY, REW./ F.FWD CLUTCH
M67	614 067 2770	CHASSIS ASSY, MECHANISM
M68	614 210 3302	LEVER PINCH ROLLER ASSY
M69	614 068 1871	FLYWHEEL DISK ASSY
M70	614 211 3752	COMMUTATE MOTOR ASSY
M71	614 067 3258	SUB CHASSIS ASSY, BASE
M72	614 070 0916	LEVER ASSY, GEAR PLATE
M73A	614 197 2480	MAGNETIC HEAD, PLAY
M73B	614 021 8862	MAGNETIC HEAD, REC./PLAY
M74	614 208 0276	LUG

Ref. No.	Part No.	Description
M75	614 021 7827	MAGNETIC HEAD, ERASE
M76	614 195 5087	SQUARE BELT, REW./F.FWD
M77	614 195 4424	SWITCH, PLAY
M78	614 195 5094	LEVER, SENSOR
M79	614 204 8672	FLYWHEEL ASSY
M80	412 026 1402	SPECIAL SCREW 2X3MM
M81	412 013 4904	SPECIAL WASHER 1.2X3X0.25T
M82	412 026 2003	SPECIAL SCREW 2X4MM
M84	412 013 8902	SPECIAL WASHER 2X3.5X0.3T

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